REPTECH

PENNSTATE iMAST
Applied Research Laboratory
Institute for Manufacturing and Sustainment Technologies

Assessing the Impact of Implementing UID (Unique Identification) at Depots

Presented by:

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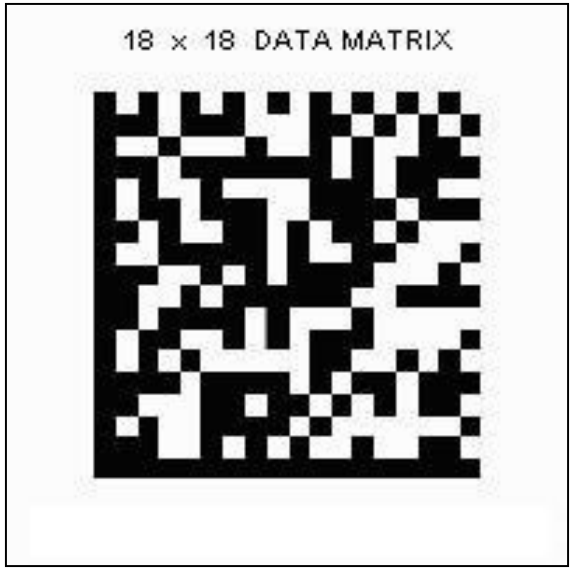

Objectives for Today's Discussion

- Define a short-term REPTECH project that addresses the impact on depots of implementing UID
  - Scope
  - Schedule
  - Tasks
  - Deliverables
  - Funding (amount, source)
- Discuss a possible longer-term REPTECH project that provides an in-depth analysis of the impact on depots of implementing UID

UID Policy – Relevant Communications

- 29 Jul 2003 : Memo from Michael Wynne regarding UID policy
  - Mandatory on all solicitations after 1 Jan 2004
  - Criteria:
    - Acquisition cost > $5,000, or
    - Serially managed, mission essential, or controlled equipment or repairable item, or a consumable item where permanent identification is required, or
    - Component of a delivered item, if PM has determined UID is required, or
    - UID or DoD-recognized UID equivalent is available
- 25 Nov 2003: *DoD Guide to Uniquely Identifying Items*
- 17 Dec 2003: Memo from Robert Mason regarding UID implementation at DoD Depot Maintenance Activities
  - Assess impact on depots and report results by 1 Feb 2004
  - UID required on items manufactured at depots after 1 Jan 2005

Related Policies

- 2 Oct 2003: RFID Policy memo from Michael Wynne
  - Suppliers to put RFID tags on cases/pallets by 1 Jan 2005
  - Items requiring a UID shall have RFID tags on item packaging
- 22 Dec 2003: Memo from Michael Wynne - *Migration to DLMS (Defense Logistics Management Standards) and Elimination of the MILS (Military Standard Systems)*
  - Changes format of logistics transactions
  - DLMS supports UIDs, MILS doesn't
  - Submit plans for migration to DLMS and incorporation of UID in system databases by 28 Feb 2004
  - Information exchanges between DoD systems shall use DLMS by 1 Jan 2005

UID Specifications

- Globally unique character string
- 78 characters max.
- Allowable characters: uppercase A-Z, 0-9, /, -
- UID = [Enterprise Identifier]+[Part # (opt.)]+ [Serial #]
- Not meant to be parsed to determine original elements
- Represented by Data Matrix ECC200 symbol (may be contained in other AIT media in addition)

UID Implementation Challenges

1. Specify which parts need UID
2. Specify where on a part to apply UID symbol
3. Specify how big to make the UID symbol
4. Specify the UID construct for an enterprise doing marking
5. Specify the marking technology to use for each part
6. Revise drawings for all affected items
7. Specify when and how UID data is to be used
8. Specify what data is to be collected along with UID
9. Develop new databases and information systems or modify existing systems to accommodate UID data
10. Select and procure marking and reading equipment
11. Train personnel
12. Develop marking, reading, and data entry procedures or modify existing procedures to accommodate UID data collection
13. Prior to marking, generate the specific UID character string for a part
14. Apply UID marks to outgoing items
15. Read UID marks on incoming items
16. Enter UID data into information systems

Depot responsibilities

Discussion: Define UID Project(s)

Short-term project

- Scope: Assess impact at 2-4 “representative” depots
- Schedule: 3 months
- Tasks: Visit depots, collect data (workload, items to be marked), contact vendors, arrange demos/tests, make assumptions, . . .
- Deliverables: Report containing recommended implementation steps, estimated costs, timeline, and issues
- Funding (amount, source): ??, ??

- Long-term project